

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims:

1        1. (Currently Amended) A method for informing a user of a private mobile communication  
2        service possible area providing a user with a private mobile communication service when a mobile  
3        communication terminal enters a private mobile communication network being interoperable with  
4        a public mobile communication network, comprising the steps of:

5              upon receiving a system parameter message being broadcast by the private mobile  
6        communication system, checking a predetermined bit for indicating the private mobile  
7        communication service area contained in the system parameter message;

8              when the mobile communication terminal exists in the private mobile communication service  
9        area, transmitting a location registration message including a predetermined registration type to the  
10      private mobile communication system;

11             receiving a message indicating a private mobile communication service possible state  
12        including a private mobile communication service associated command from the private mobile  
13        communication system according to registration result information of the private mobile  
14        communication system; and

15             informing the user of the private mobile communication service possible state performing  
16        a command contained in the received message.

1        2. (Currently Amended) The method as set forth in claim 1, wherein the message indicating  
2        the private mobile communication service possible state including the private mobile communication  
3        service associated command is a feature notification message including a predetermined field used  
4        for indicating the private mobile communication service possible state.

Claim 3. (Cancelled)

1        4. (Currently Amended) A method for informing a user of a private mobile communication  
2        service possible area providing a user with the private mobile communication service when a mobile  
3        communication terminal enters a private mobile communication network being interoperable with  
4        a public mobile communication network, comprising the steps of:

5              upon receiving a system parameter message being broadcast by the private mobile  
6        communication system, checking a predetermined bit for indicating the private mobile  
7        communication service area contained in the system parameter message;

8              when the mobile communication terminal exists in the private mobile communication service  
9        area, transmitting a location registration message including a predetermined registration type to the  
10      private mobile communication system;

11             receiving a message indicating a private mobile communication service possible state  
12        including the private mobile communication service associated command from the private mobile  
13        communication system; and

14       informing the user of the private mobile communication service possible state performing  
15       a command contained in the received message.

1           5. (Currently Amended) The method as set forth in claim 4, wherein the message indicating  
2       the private mobile communication service possible state including the private mobile communication  
3       service associated command is a feature notification message having a predetermined field used for  
4       indicating the private mobile communication service possible state.

1           6. (Original) The method as set forth in claim 5, wherein the predetermined field is a CHARI  
2       field of an IS-95 Information Records Element.

Claim 7. (Cancelled)

1           8. (Currently Amended) A method for informing a mobile communication terminal of a  
2       private mobile communication service possible area providing a mobile communication terminal  
3       with a private mobile communication service in a private mobile communication system being  
4       interoperable with a public mobile communication network, comprising the steps of:

5           broadcasting a system parameter message with a predetermined bit indicating a private  
6       mobile communication service area to at least one mobile communication terminal residing in the  
7       private mobile communication service area;

8           receiving a registration message including a predetermined registration type requesting to

9 register in the private mobile communication system from the mobile communication terminal;  
10 searching for a subscriber database of the private mobile communication system to determine  
11 whether the mobile communication terminal is registered or not, and performing a location  
12 registration of the mobile communication terminal according to registration result information of the  
13 mobile communication terminal; and  
14 transmitting a message ~~indicating a private mobile communication service possible state~~  
15 including a private mobile communication service associated command to the mobile  
16 communication terminal.

1 9. (Currently Amended) The method as set forth in claim 8, wherein the message ~~indicating~~  
2 ~~the private mobile communication service possible state including a private mobile communication~~  
3 ~~service associated command~~ is a feature notification message having a predetermined field used for  
4 indicating the private mobile communication service possible state.

1 10. (Original) The method as set forth in claim 9, wherein the predetermined field is a  
2 CHARI field of an IS-95 Information Records Element.

Claim 11. (Cancelled)

1 12. (Currently Amended) A method for ~~informing a mobile communication terminal of a~~  
2 ~~private mobile communication service possible area providing a mobile communication terminal~~

3       with a private mobile communication service in a private mobile communication system being  
4       interoperable with a public mobile communication network, comprising the steps of:

5           broadcasting a system parameter message with a predetermined bit indicating a private  
6       mobile communication service area to at least one mobile communication terminal residing in the  
7       private mobile communication service area;

8           receiving a registration message including a predetermined registration type requesting to  
9       register in the private mobile communication system from the mobile communication terminal;

10          performing a location registration of the mobile communication terminal after receiving the  
11       registration message; and

12          transmitting a message ~~indicating a private mobile communication service possible state~~  
13       including a private mobile communication service associated command to the mobile  
14       communication terminal.

1       13. (Currently Amended) The method as set forth in claim 12, wherein the message  
2       ~~indicating the private mobile communication service possible state~~ including a private mobile  
3       communication service associated command is a feature notification message having a  
4       predetermined field used for indicating the private mobile communication service possible state.

1       14. (Original) The method as set forth in claim 13, wherein the predetermined field is a  
2       CHARi field of an IS-95 Information Records Element.

Claim 15. (Cancelled)

1        16. (Currently Amended) A method for informing at least one mobile communication  
2        terminal of a specific area of a mobile communication network in a mobile communication system  
3        providing at least one mobile communication terminal with a service of a specific area of a mobile  
4        communication network when the mobile communication terminal enters the specific area of the  
5        mobile communication network, comprising the steps of:

6              broadcasting a system parameter message with a predetermined bit indicating the specific  
7        area to the mobile communication terminal residing in the mobile communication service area;

8              receiving a registration message including a predetermined registration type requesting to  
9        register in the mobile communication system from the mobile communication terminal;

10             searching for a subscriber database of the mobile communication system to determine  
11        whether the mobile communication terminal is registered or not, performing a location registration  
12        of the mobile communication terminal according to registration result information of the mobile  
13        communication terminal; and

14             transmitting a message indicating a specific area service possible state including a specific  
15        area service associated command to the mobile communication terminal.

1        17. (Currently Amended) The method as set forth in claim 16, wherein the message  
2        indicating the specific area service possible state including a specific area service associated  
3        command is a feature notification message having a predetermined field used for indicating the

4 specific area service possible state.

1 18. (Original) The method as set forth in claim 17, wherein the predetermined field is a  
2 CHARi field of an IS-95 Information Records Element.

Claim 19. (Cancelled)

1 20. (Currently Amended) A method for ~~informing a user of a specific area of a mobile~~  
2 ~~communication network providing a user with a service of a specific area of a mobile~~  
3 ~~communication network~~ when the mobile communication terminal enters the specific area of a  
4 mobile communication system, comprising the steps of:

5 upon receiving a system parameter message being broadcast by the mobile communication  
6 system, checking a predetermined bit for indicating the specific area in the system parameter  
7 message;

8 when the mobile communication terminal exists in the service area of the specific area,  
9 transmitting a registration message including a predetermined registration type to the mobile  
10 communication system;

11 receiving a message indicating a ~~specific area service possible state in the mobile~~  
12 ~~communication network including a specific area service associated command of a mobile~~  
13 ~~communication network~~ from the mobile communication system; and

14 ~~informing the user of the specific area service possible state performing a command~~

15       contained in the received message.

Claim 21. (Cancelled)

1           22. (Currently Amended) A computer-readable medium having computer-executable  
2       instructions for performing a method for ~~informing a user of a private mobile communication service~~  
3       ~~possible area providing a user with a private mobile communication service~~ when a mobile  
4       communication terminal enters a private mobile communication network being interoperable with  
5       a public mobile communication network, comprising:  
6           upon receiving a system parameter message being broadcast by the private mobile  
7       communication system, checking a predetermined bit for indicating the private mobile  
8       communication service area contained in the system parameter message;

9           when the mobile communication terminal exists in the private mobile communication service  
10      area, transmitting a location registration message including a predetermined registration type to the  
11      private mobile communication system;

12          receiving a message ~~indicating a private mobile communication service possible state~~  
13       ~~including a private mobile communication service associated command~~ from the private mobile  
14       communication system according to registration result information of the private mobile  
15       communication system; and

16          informing the user of the private mobile communication service possible state performing  
17       a command contained in the received message.

1        23. (Currently Amended) The computer-readable medium of claim 22, wherein the message  
2 indicating the private mobile communication service possible state including a private mobile  
3 communication service associated command is a feature notification message including a  
4 predetermined field used for indicating the private mobile communication service possible state.

Claim 24. (Cancelled)

1        25. (Currently Amended) A method for performing a manner mode conversion function of  
2 a mobile communication terminal in a private mobile communication network being interoperable  
3 with a public mobile communication network, comprising the steps of:  
4              upon receiving a system parameter message being broadcast by the private mobile  
5 communication system, checking a predetermined bit for indicating the private mobile  
6 communication service area contained in the system parameter message;  
7              when the mobile communication terminal exists in the private mobile communication service  
8 area, transmitting a location registration message including a predetermined registration type to the  
9 private mobile communication system; and  
10          receiving a message indicating a private mobile communication service possible state from  
11 the private mobile communication system, and performing the manner mode conversion function  
12 when the received message has a bit indicating the manner mode conversion function The method  
13 as set forth in claim 1, wherein the command allows the mobile communication terminal to perform

14       a manner mode conversion function.

1           26. (Currently Amended) The method as set forth in claim [[25]] 4, wherein the message  
2 indicating the private mobile communication service possible state is a feature notification message  
3 having a predetermined field used for indicating the private mobile communication service possible  
4 state wherein the command enables the mobile communication terminal to perform a manner mode  
5 conversion function.

1           27. (Currently Amended) A method for providing at least one mobile communication  
2 terminal with a manner mode conversion function in a private mobile communication system being  
3 interoperable with a public mobile communication network, comprising the steps of:

4           broadcasting a system parameter message with a predetermined bit indicating a private  
5 mobile communication service area to the mobile communication terminal contained in a private  
6 mobile communication service area;

7           receiving a location registration message including a predetermined registration type  
8 requesting to register in the private mobile communication system from the mobile communication  
9 terminal; and

10          performing a location registration of the mobile communication terminal after receiving the  
11 location registration message, and transmitting a message which contains a bit indicating the manner  
12 mode conversion function and indicates a private mobile communication service possible state to  
13 the mobile communication terminal The method as set forth in claim 8, wherein the command

14     enables the mobile communication terminal to perform a manner mode conversion function.

1       28. (Currently Amended) The method as set forth in claim [[27]] 12, wherein the message  
2 indicating the private mobile communication service possible state is a feature notification message  
3 having a predetermined field used for indicating the private mobile communication service possible  
4 state wherein the command allows the mobile communication terminal to perform a manner mode  
5 conversion function.

1       29. (Currently Amended) A method for providing at least one mobile communication  
2 terminal with a manner mode conversion function in a mobile communication system when the  
3 mobile communication terminal enters the specific area of the mobile communication network,  
4 comprising the steps of:

5           broadcasting a system parameter message with a predetermined bit indicating the specific  
6 area to the mobile communication terminal contained in a private mobile communication service  
7 area;

8           receiving a registration message having a predetermined registration type requesting to  
9 register in the mobile communication system of the specific area from the mobile communication  
10 terminal; and

11          searching for a subscriber database of the mobile communication system to determine  
12 whether the mobile communication terminal is registered or not, performing a location registration  
13 of the mobile communication terminal according to registration result information of the mobile

14 communication terminal, and transmitting a message which contains a bit indicating the manner  
15 mode conversion function and indicates a specific area service possible state to the mobile  
16 communication terminal The method as set forth in claim 16, wherein the command enables the  
17 mobile communication terminal to perform a manner mode conversion function.

1 30. (Currently Amended) The method as set forth in claim [[29]] 20, wherein the message  
2 indicating the specific area service possible state is a feature notification message having a  
3 predetermined field used for indicating the specific area service possible state the command enables  
4 the mobile communication terminal to perform a manner mode conversion function.

Claims 31-32. (Cancelled)

1 33. (New) A method for providing a user with a private mobile communication service when  
2 a mobile communication terminal enters a private mobile communication network, comprising the  
3 steps of:

4 upon receiving a system parameter message being broadcasting by the private mobile  
5 communication system, checking a predetermined bit for indicating the private mobile  
6 communication service area contained in the system parameter message, and determining whether  
7 the mobile communication terminal exists in the private mobile communication service area;

8 when the mobile communication terminal exists in the private mobile communication service  
9 area, transmitting a location registration message including a predetermined registration type to the

- 10 private mobile communication system;
- 11 receiving a message indicating a private mobile communication associated command from
- 12 the private mobile communication system; and
- 13 performing a command contained in the received message.